

## A B S T R A C T

A method for determining the complexity of an enterprise information resource management system, the enterprise information resource management system being used to contain an ontology into which a plurality of enterprise data assets are mapped, the ontology including a plurality of model constructs, the enterprise data assets including a plurality of assets constructs, and the mappings between the data assets and the ontology including a plurality of mapping constructs, including receiving (i) a number of distinct asset constructs, denoted by  $C_{ASSET}$ , (ii) a number of distinct mapping constructs, denoted by  $C_{MAPPING}$ , and (iii) a number of distinct model constructs, denoted by  $C_{MODEL}$ , evaluating a metric of complexity, denoted by  $M$ , for an enterprise information resource management system having a capacity corresponding to  $C_{ASSET}$ ,  $C_{MAPPING}$  and  $C_{MODEL}$ , according to a formula

$$M = f(C_{ASSET}, C_{MAPPING}, C_{MODEL}, X),$$

where  $f$  is a real-valued function of three or more real-valued parameters and  $X$  denotes optional additional parameters, and using the metric  $M$  within a transaction processing system, for license of the enterprise information resource management system. A system and computer-readable storage medium are also described and claimed.